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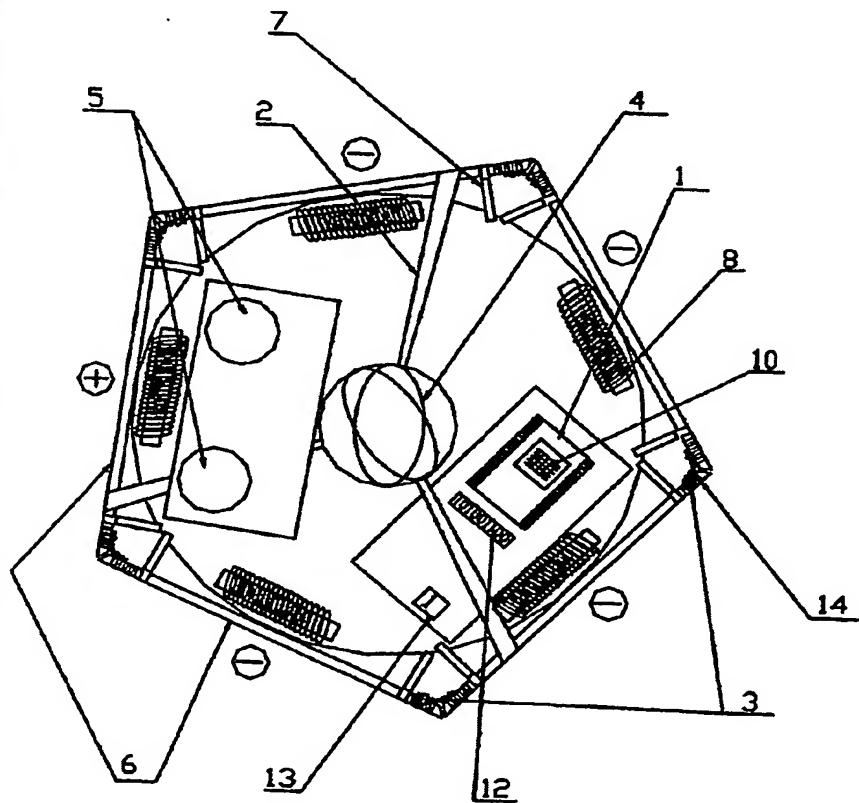
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(54) Title: A SYSTEM OF THREE-DIMENSIONAL MULTIPURPOSE ELEMENTS



(57) **Abstract:** A system of three-dimensional multipurpose elements consists of single solid elements, which can be computer-controlled to move, connect one to and disconnect one from another. A single element of the system consists of a casing made up of walls (6), linked with each other by means of electroplastic actuator (3) which change the reciprocal position of the walls of the casing of a single element. Changes in the reciprocal position of the walls occur according to the exciting signal transmitted from a programmable integrated circuit (1). Heat emitters (14) carry away excess heat from the system devices. Inside a single element there are provided interlocks (7) for connecting respective single elements, as well as magnetic coils (8) and a voltage source (5) supplying the integrated circuit (1), interlocks, magnetic coils and electroplastic actuator.